

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 Claim 1 (previously presented): An injection molding system comprising:
2 an injection molding apparatus injecting melted resin into a die, the die being placed forward
3 of one end of the injection molding apparatus;
4 an air feeder for feeding at least air into the injection molding apparatus through a mouth
5 arranged at an end of the injection molding apparatus opposite to the one end of the injection
6 molding apparatus;
7 a resin pellet feeding passage for feeding resin pellets into the injection molding apparatus,
8 the resin pellet feeding passage feeding the pellets into the injection molding apparatus at a location
9 spaced apart from where the mouth feeds the at least air into the injection molding apparatus;
10 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
11 feeding passage into the injection molding apparatus;
12 a pellet exhaust gas passage for passing moisture and exhaust gas which are generated when
13 the resin pellets melt in the injection molding apparatus; and
14 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
15 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus.

Claim 2 (canceled).

1 Claim 3 (previously presented): An injection molding system comprising:

2 an injection molding apparatus injecting melted resin into a die, the die being placed forward
3 of one end of the injection molding apparatus;

4 an air feeder for feeding at least air into the injection molding apparatus through a mouth
5 arranged at an end of the injection molding apparatus opposite to the one end of the injection
6 molding apparatus;

7 a resin pellet feeding passage for feeding resin pellets into the injection molding apparatus,
8 the resin pellet feeding passage feeding the pellets into the injection molding apparatus at a location
9 spaced apart from where the mouth feeds the at least air into the injection molding apparatus;

10 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
11 feeding passage into the injection molding apparatus;

12 a pellet exhaust gas passage for passing moisture and exhaust gas which are generated when
13 the resin pellets melt in the injection molding apparatus;

14 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
15 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus; and

16 a device for preventing the moisture and the exhaust gas which pass through the gas exhaust
17 passage from contacting the resin pellets passing through the pellet feeding passage, with the
18 moisture and the exhaust gas passing through a space outside the pellet feeder.

1 Claim 4 (previously presented): An injection molding system comprising:
2 an injection molding apparatus injecting melted resin into a die, the die being placed forward
3 of one end of the injection molding apparatus;
4 an air feeder for feeding at least air into the injection molding apparatus through a mouth
5 arranged at an end of the injection molding apparatus opposite to the one end of the injection
6 molding apparatus;
7 a resin pellet feeding passage for feeding resin pellets into the injection molding apparatus,
8 the resin pellet feeding passage feeding the pellets into the injection molding apparatus at a location
9 spaced apart from where the mouth feeds the at least air into the injection molding apparatus;
10 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
11 feeding passage into the injection molding apparatus;
12 a pellet exhaust gas passage for passing moisture and exhaust gas which are generating when
13 the resin pellets melt in the injection molding apparatus;
14 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
15 exhaust gas form a pellet feeding passage side to an outside of te injection molding apparatus; and
16 a removing apparatus placed at the exhaust gas passage.

Claim 5-10 (canceled).

1 Claim 11 (previously presented): A resin pellet feeding unit comprising:

2 a device for automatically feeding pellets with a vacuum interception valve, the device and
3 the valve being disposed to intercept a passage between a pellet storage tank and other pellet storage;

4 a resin pellet feeding passage for feeding resin pellets into an injection molding apparatus;

5 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
6 feeding passage into the injection molding apparatus;

7 an exhaust gas passage for passing moisture and exhaust gas which are generated when the
8 resin pellets melt in the injection molding apparatus; and

9 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
10 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus.

1 Claim 12 (previously presented): A resin pellet feeding unit comprising:

2 a device for automatically feeding pellets with a vacuum interception valve, the device and
3 the valve being disposed to intercept a passage between a pellet storage tank and other pellet storage;

4 a resin pellet feeding passage for feeding resin pellets into an injection molding apparatus;

5 a pellet feeding regulator for controlling feed of the resin pellets from the resin pellet feeding
6 passage into the injection molding apparatus;

7 an exhaust gas passage for passing moisture and exhaust gas which are generated when the
8 resin pellets melt in the injection molding apparatus;

9 a decompressor connected to the exhaust gas passage for exhausting the moisture and the

10 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus; and
11 a device for preventing the moisture and the exhaust gas which pass through the exhaust gas
12 passage from contacting the resin pellets passing through the pellet feeding passage.

Claim 13 (canceled).

1 Claim 14 (previously presented): A resin pellet feeding unit comprising:
2 a device for automatically feeding pellets with a vacuum interception valve, the device and
3 the valve being disposed to intercept a passage between a pellet storage tank and other pellet storage;
4 a resin pellet feeding passage for feeding resin pellets into an injection molding apparatus;
5 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
6 feeding passage into the injection molding apparatus;
7 an exhaust gas passage for passing moisture and exhaust gas which are generated when the
8 resin pellets melt in the injection molding apparatus;
9 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
10 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus; and
11 a removing apparatus placed at the exhaust gas passage.

Claims 15-28 (canceled).

1 Claim 29 (previously presented): An injection molding system comprising:
2 an injection molding apparatus injecting melted resin into a die, the die being placed forward
3 of one end of the injection molding apparatus;
4 an air feeder for feeding at least air into the injection molding apparatus through a mouth
5 arranged at an end of the injection molding apparatus opposite to the one end of the injection
6 molding apparatus;
7 a resin pellet feeding passage for feeding resin pellets into the injection molding apparatus,
8 the resin pellet feeding passage feeding the pellets into the injection molding apparatus at a location
9 spaced apart from where the mouth feeds the at least air into the injection molding apparatus;
10 a pellet feeding regulator for controlling a feed of the resin pellets from the resin pellet
11 feeding passage into the injection molding apparatus;
12 a pellet exhaust gas passage for passing moisture and exhaust gas which are generated when
13 the resin pellets melt in the injection molding apparatus;
14 a decompressor connected to the exhaust gas passage for exhausting the moisture and the
15 exhaust gas from a pellet feeding passage side to an outside of the injection molding apparatus; and
16 a device for preventing the moisture and the exhaust gas which pass through the gas exhaust
17 passage from contacting the resin pellets passing through the pellet feeding passage, with the
18 moisture and the exhaust gas passing through a space outside the pellet feeder,
19 wherein the degree of decompression of said decompressor is at least one selected from
20 among about 40Kpa (300 torr) or more, about 70 Kpa or more, and about 80 Kpa to 95 Kpa.

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